

ABSTRACT OF THE DISCLOSURE

A system and method providing Internet protocol security without secure domain name resolution are disclosed. A processor that periodically needs to resolve domain names into network addresses has a local DNS server that includes a secure IPSEC cache, a resolver
5 function, a security policy database, and an IPSEC layer. The cache is readable only by the IPSEC layer. Resolved domain names are cached with process and transaction identifiers that uniquely associate the resolved names with an application process and time. When resolution is needed, the cache is used to ensure that IP addresses are resolved from names that came from the application. As a result, IPSEC connections may be established without use of
10 DNSSEC to provide secure domain name resolution.